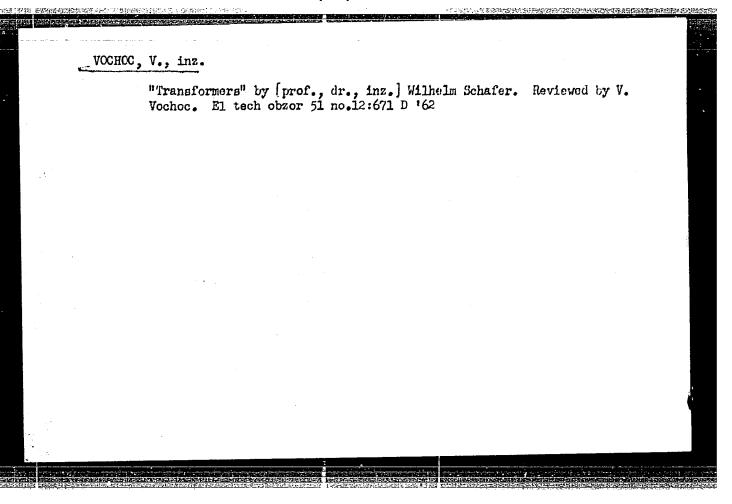


VOCHOC, Vaclav, inz.

Present conditions and development of transformers. 31 tech obzor 50 no.11:606-609 N '61.

1. Ceskomoravska-Kolben-Danek Praha, n.p.

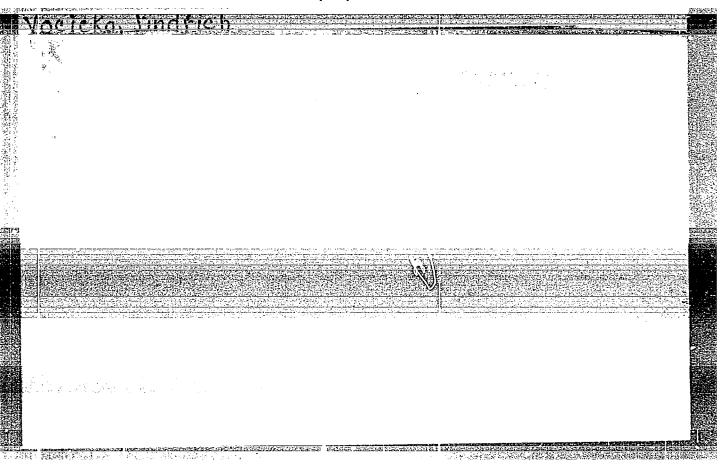


VOCHORISHVILI, G.B.

General pathological and anatomical characteristics of fracture knitting under conditions of food and defense reflexes. Soob.

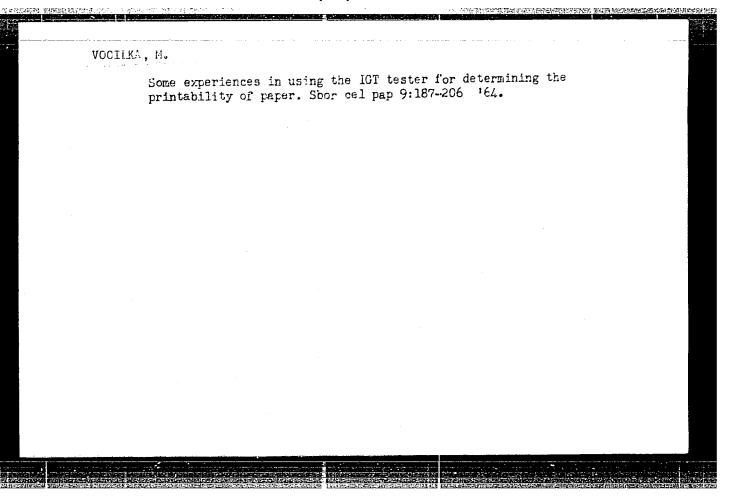
AN Gruz. SSR 18 no.1:95-102 Ja '57. (MLRA 10:5)

1. Laboratoriya kortiko-vistseral'noy patologii Instituta fiziologii im. I.P. Pavlova AN SSSR. 2. Kafedra patologicheskoy anatomii Leningradskogo instituta usovershenstvovaniya vrachey im. S.M. Kirova. 3. Kafedra patologicheskoy anatomii Tbilisskogo meditsinskogo instituta. Predstavleno akademikom V.K. Zhgenti. (FRACTURES) (CONDITIONED RESPONSE)



VOCILKA, M., inz.; FIKEROVA, J.

Determining the pulp content in paper by bromination. Sbor cel pap no.7:279-268 62.



VOCILKA, Milos, inz.

Testing the scoring ability of paperboard. Papir a celulosa 20 no.1:27-29 Ja '65.

1. Research Institute of Paper and Cellalose, Worksite Prague.

VOCL - James

Operational practice of students of railroad schools. p. 178
ZELEZNICAR. Praha, Gzechoslovakia, No. 7, July 1959

Monthly List of East European Accessions (EEAI), LC. Vol. 8, No. 9, September 1959 Uncl.

HUNGARY/General Problems of Pathology - Comparative Oncology. Tumors of Man.

U-3

Abs Jour

: Ref Zhur - Biol., No 16, 1958, 75557

: Vocsei, Anna; Rutkai, Pal

Author

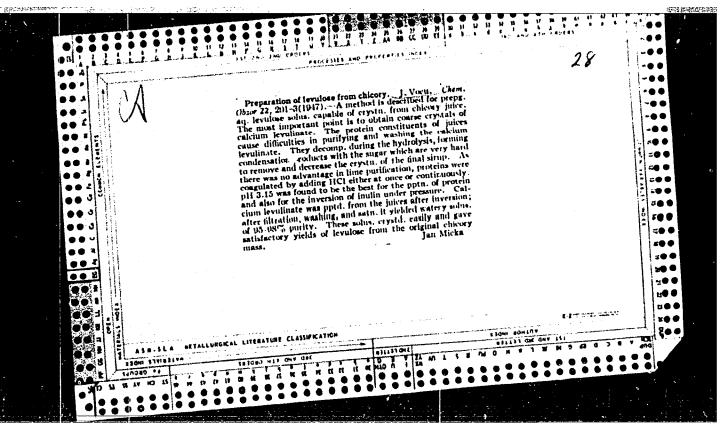
Inst Title : Mctastases of Malign Tumors into the Myocardium.

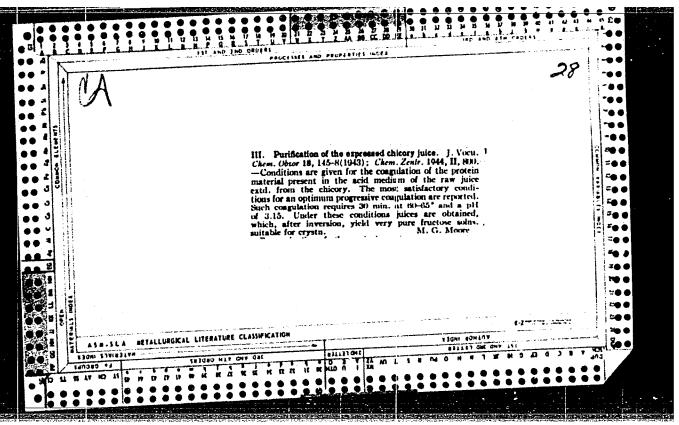
Orig Pub : Orv. hetilap., 1957, 98, No 30, 818-821

Abstract : No abstract.

card 1/1

- 23 -





COUNTRY: CATEGORY	:	Rumania H-27	
	•	RZKhime, No. 5 1960, No. 19752	
AUTHOR INST. TITLE ORIG. PUB. ABSTRACT	ŧ	Vasilescu, I. and Vociu, M. Not given The Production of Calcium Gluconate by the Biochemical Oxidation of Glucose Rev Chim (RPR), 10, No 2, 89-91 (1959) The strain Aspergillus niger has been adapted to the oxidation of glucose to gluconic acid. The fermentation proceeds satisfactorily at 30-40° fermentation proceeds satisfactorily at 30-40° with an average yield of about 94% in 34 hrs. From authors' summary	
CARD: 1	/1		

VODA, Jiri, inz.; ZABKA, Milan, inz.

Loosening the frozen earth by explosives. Inz stavby 11 no.8: 291-293 Ag '63.

1. Vyskumny ustav stavenictva, Bratislava (for Voda). 2. Zapadoslovenske kamenolomy a strkopisky, Bratislava (for Zabka).

VODA. J.

A half century after the construction of the biggest radiotelegraphic transmitter in the USA, an achievement of the Slovak Rev. Jozef Murgas. p. 433

TECHNICKA PRACA. Bratislava, Czechoslowakia. Vol. 7, No. 10, Oct. 1955

Monthly List of East European Accession (EEAI), LC. Vol. 8, No. 9, September 1959 Uncl.

VODA, JURAJ

Jozef Murgas, priekopnik radiotelegrafie. (Vyd. 1) Martin, Oseveta, 1955. 103 p. (Priekopnici nasej pritomnosti, 2) (Josph Murgas, pioneer in radiotelegraphy. 1st ed. illus., bibl.)

STUBBE: East European Accessions List, Vol. 5, no. 9, September 1956

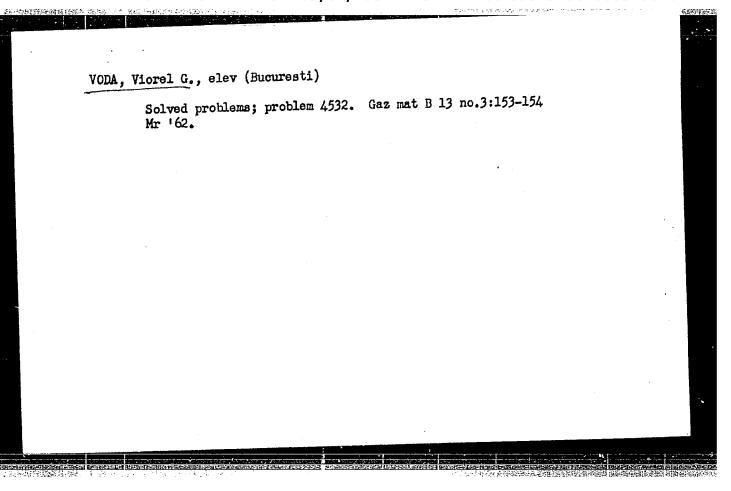
BIALEXAFIERS	Additional and discounting the party of the control	Caste Caste
	L 41519-65 ARG/ZZO-2/ZMG(1)/Z.T(d)/FBD/FSS-2/Z.G(r)/Z.T(1)/FBO/Z.T(c)/ZMC(1)/Z.T(c)/ZMC(1)/Z.T(c)/ZMC(1)/Z.T(c)/ZMC(1)/Z.T(c)/ZMC(1)/ZM	
Estate HEAT	B ENGLES OF THE PROPERTY AND THE SECOND PROPERTY OF THE PROPER	

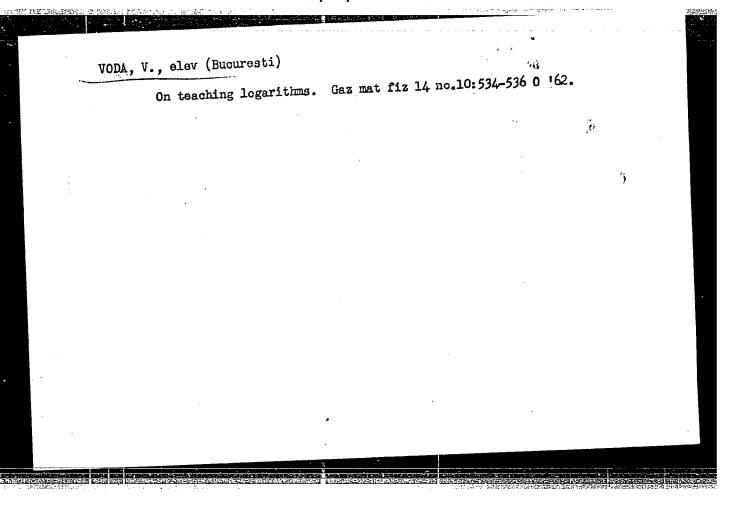
		···· · · · · · · · · · · · · · · · · ·		
1 .	•			
	•		14	
•	1, 41519-65	•		į
	A14045110	of Medical Sciences, Doctor); Sadil, Jo jehnal, Ladislav; Stverak, Jiri, (Doctor)	sef, (Doctor of	
	Ruml, Vladimir, (Condidate	of Medical Sciences, Doctor); Sadi, Jo Schnal, Ladislay; Stverak, Jiri, (Doctor) Schnal, Ladislay; Stverak, Jiri, (Roctor) Sciences, Candidate of Physical and Mather (Candidate)	Svestka,	
•	Physiological actement	Candidate of Physical and	- of mechaical	
	Zdenek, (Doctor), idas,	Engineer); Vichin, Lyan,	and Mathe	
•	Sciences, Professor, Docto	or); Valnicek, Dilling, (Candidate of Paysis	cal and Macce-	
•	Line Settinger December 1		Zujazo-	
	Wathematical Sciences; Do	ctor); Voda, Miloslav, (Engineer)	n 11cm 111164	
Ċ	. Production !	Zaklady kosmonautiky) Prague, Orbis, 196	м. 445 р. 2222	1
. •	Principles of astronautics (biblio. 5000 copies print	ted.	•••	
	616110. 5000 copers 2.	sacto comes flight, missile	15	
	TOPIC TAGS: commonwatics,	rocket, Batellite, Space	avenue book for	
	TOPIC TAGS: commonauties, 1	rocket, satellite, space flight, missile publication is a popular scientific ref	erence book for	
•	. PURPOSE AND COVERAGE: This	publication is a presents a survey of c	erence book for commonsuties and	
	TOPIC TAGS: commonautics, in	publication is a presents a survey of c	erenge book for commonauties and	
	PURPOSE AND COVERAGE: This people working in common space flight up to 1 Jun	publication is a presents a survey of c	erenge book for commonautics and	
	. PURPOSE AND COVERAGE: This	publication is a presents a survey of c	erence book for commonsuties and	
	PURPOSE AND COVERAGE: This people working in common space flight up to 1 Jun TABLE OF CONTENTS:	publication is a presents a survey of c	erence book for commonauties and	
	PURPOSE AND COVERAGE: This people working in common space flight up to 1 Jun	publication is a presents a survey of c	erenge book for commonauties and	
	PURPOSE AND COVERAGE: This people working in common space flight up to 1 Jun TABLE OF CONTENTS:	publication is a presents a survey of c	erenge book for commonautics and	
	PURPOSE AND COVERAGE: This people working in common space flight up to 1 Jun TABLE OF CONTENTS:	publication is a presents a survey of c	erenge book for commonautics and	
	PURPOSE AND COVERAGE: This people working in common space flight up to 1 Jun TABLE OF CONTENTS:	publication is a presents a survey of c	erenge book for communities and	
	PURPOSE AND COVERAGE: This people working in common space flight up to 1 Jun TABLE OF CONTENTS:	publication is a presents a survey of c	erenge book for commonautics and	
	PURPOSE AND COVERAGE: This people working in common space flight up to 1 Jun TABLE OF CONTENTS:	publication is a presents a survey of c	erence book for commonautics and	
	PURPOSE AND COVERAGE: This people working in common space flight up to 1 Jun TABLE OF CONTENTS:	publication is a presents a survey of c	erence book for commonautics and	

DVORAK, Jaroslav; MUSIL, Rudolf; SEKANINA, Josef; ZUREK, Vladimir; TRACHTÜLEC, Jan; VODA, Oldrich; CHLUPAC, Ivo; HOMOLA, Vladimir; PESEK, Jiri; ZAK, Lubor; GASPARIK, Jan

Activities of the branches of the Czechoslovak Society for Mineralogy and Gaology in Brno, Most, Olomouc, Ostrava, Praha and Zilina. Cas min gool 7 no.3:385-392 *62.

L-64351-65 EMP(e)/EMP(t)/EMP(k)/EMP(s)/EMP(b) RU/0018/64/000/010/0544/0547 ACCESSION NR: AP5023497 AUTHCR: Nagy, Ladislau; Tertan, Alexandru: Szilagyi, Mihai: Voda, Teodor UUTITES. Study on the thermal conductivity of sintered parts on an iron basis SOURCE: Constructia de masini, no. 10, 1964, 544-547 TOPIC TAGS: iron, powder metal, powder metal sintering, powder metal compaction, heat conductivity ABSTRACT: The authors studied the thermal conductivity of sintered iron parts in terms of some parameters of the sintering process, namely the pressure at which the powder was compressed, the sintering temperature and the duration of the process. Orig. Art. Incl.: 2 figures, 4 formulas and 6 tables. ASSOCIATION: none SUB CODE: MM, TD ENGL: CO SUBMITTED: 00 **JPRS** OTHER: 003 NR REF SOV: 001





VODA, G. Viorel; DUMITRESCU, Florea I.; STRATESCU, Ion, student; IONESCU-TIU, C.; DOBRE, Nelu, prof. (Merei Buzau); POPESCU, Eleodor (Tr. Severin); GHEORGHIU, D.R. (Timisoara); GRIGORE, Viorel (Oroftiane).

Exercises and problems proposed for grades 5-8. Gaz mat B 14 no.12:741-743 D 163.

企業等**指導指**對於自然的學術學的方式

SANDULACHE, C. (Negresti, Iasi); IONESCU-TIU, C.; PETRU, Simon;
MIRAILEANU, N.; VODA, Ch. Viorel (Bucuresti); BATINETU, D.M.
(Bucuresti); POFA, Eugen, (Iasi); STRATESCU, Ion

Solved problems. Gaz mat B 15 no.7:301-308 Jl '64.

VODACEK, O.

VODACEK, O. Brown-coal mills for pulverized fuelfiring. p. 486.

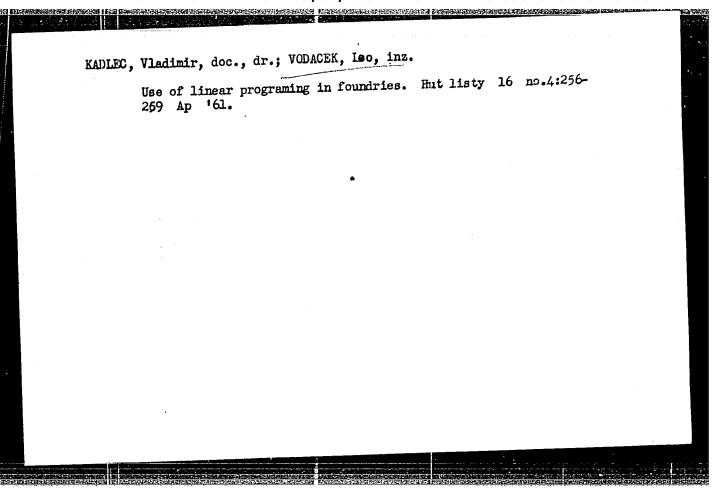
Vol. 6, no. 12, Dec. 1956 ENERGETIKA TECHNOLOGY Czechoslovakia

So: East European Accession, Vol. 6, No. 5, May 1957

VODACEK, O., inz.; SANDA, J., inz.; PICKA, V., inz.

Comparison of boilers with various coal grinding systems and their suitability for heavy duty units. Strojirenstvi 14 no.11:866-870 N '64.

1. Research Institute of Electric Equipment, Brno.

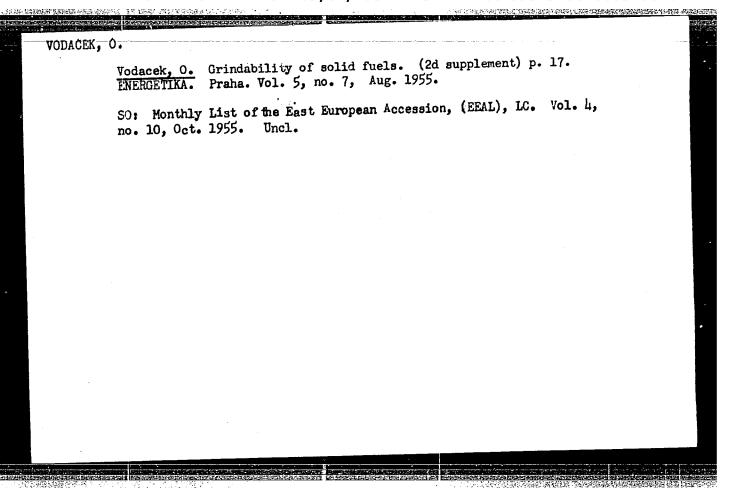


VODACEK, Leo, inz.; KOZAR, Zdenek, inz.

Solution of the tasks of linear programming on automatic computers. Pod org 18 no. 1:32-34 Ja 164.

1. Ceskomoravska-Kolben-Danek Praha.

toma tomation



VODACEK, O.

Grindability of solid fuels. (2d supplement) p. 17.

ENERGETIKA, Praha, Vol. 5, no. 7, Aug. 1955.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, no. 10, Oct. 1955, Uncl.

VODACEK, Ota, inz.

Two rotor coal pulverizer. Energetika Cz 12 no.7:376-378 J1 '62.

COJA, N., conf.; RUSU, O.; TURCAS, A.; VODAILO, St.; GRUNFELD, T.

Staphylococcal infection in the puerperant and the newborn. Microbiologia (Bucur) 6 no.1;28 Ja-F '61.

Н

VODAK

CZECHOSLOVAKIA / Chemical Technology. Ceramics,

glass, cement, materials, concrete.

Abs Jour: Ref Zhur Knimiya, No 12, 1958, 40347.

Author : Vodak.
Inst : Not given.

: An Electromagnetic Separator for Ceramic Refuse. Title

Orig Pub: Stavivo, 1957, 35, No 12, 490-491.

Abstract: The working principle, work and efficiency of a

new separator for the removal of Fe is described. The apparatus was manufactured in Zapadnocheshskom ceramic plant in Gorni Brsziza, according to the blue prints of NII of technology and mechanization

in building industry.

Card 1/1

CIA-RDP86-00513R001860320016-4" APPROVED FOR RELEASE: 09/01/2001

Czechoslovakia/Weeds and their Control

M

Abs Jour : Ref Zhur-Biol., No 2, 1958, 6412

Author

: Vodak

Inst

: Not given

Title

: Application of Herbicides, an Important Measure

of Weed Control

Orig Pub : Za vysokou urodu, 1957, 5, No 5, 100-103

Abstract : In Czechoslovakia herbicides of domestic origin are used: kainite, cyanamide, green vitriol, sodium of dinitrocresol, nitrous copper oxide, sodium salts 2,4-0 and 2-M-4-Kh. The last named salt is used in planting flax, the other in cereal crops. Means of application are described.

Card 1/1

YODAK, ALES

Semena a plody plevelu. Praha, Statni pedagogicke nakl., 1954. 45 p. (Ucebni texty vysokych skol)

SOURCES: EEAL IC Vol. 5 No. 10 Oct. 1956

VODAK, ALES

Osivo a sad. Praha, Statni pedagogicke nakl., 1956. 79 p. (Ucebni texty vysokych skol)

SOURCES: EFAL LC Vol. 5 No. 10 Oct. 1956

VODAK, ALES

"Semena nebo plody nasich kulturnich rostin a nejcastejsich plevelu. Zdenik Kropac, Marie Nejedia: Klicni rostliny nasich beznych plevelu. (Vyd. 1.) Praha Ceskoslovenska akademic zemedeiskych ved ve Statnim zemedelskem nakl., 1956. 241 p. (kostlinna vyroba, 551) (Seeds and spores of our agricultural plants and most common weeds. Zdenek Kropac, Marie Nejedia: Sprouts, of our current weeds. 1st ed. illus., bibl.)

CU Not in DLC

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, no. 7, July 1958

CIMALA, Zybmek, inz.; VODAK, Jar.

大型論語語語(注:)

Mechanization and automation of transportation in mine stations. Rudy 12 no.9:355-358 S '64.

1. Jachymovske doly National Enterprise, Rozna.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001860320016-4"

VCDAK, Pavel, SULC, Antonin

School phobia and truancy. Cesk.psychiat. 56 no.2:109-107 Ap 160.

1. Psychiatricke oddeleni KUNZ, Zachytny detsky domov v Liberci. (CHILD PSYCHOLOGY)

Vodak, V.

Work mechanization in the manufacturing plans of heatproof products. p. 96 (Stavivo. Vol. 35, no. 3, Har. 1957. Praha, Czechoslovakia)

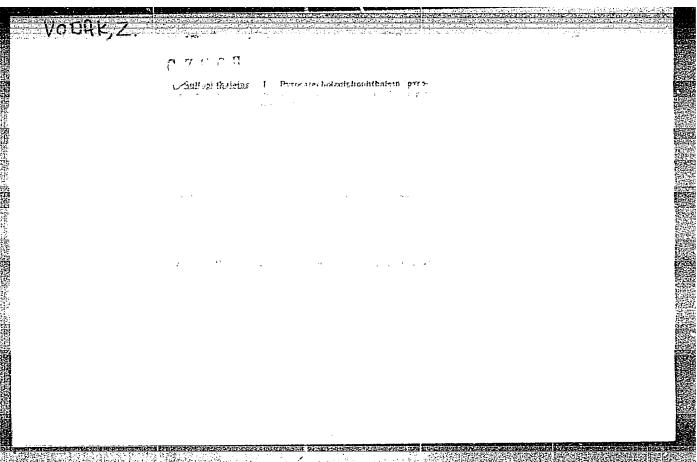
SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 10, October 1957. Uncl.

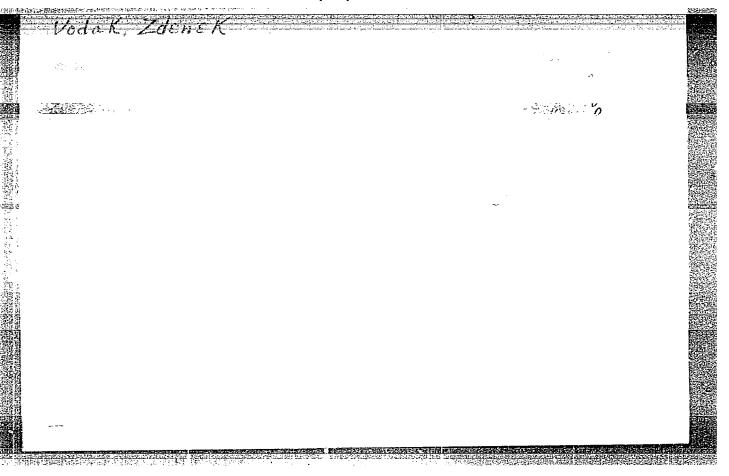
VODAK, V.

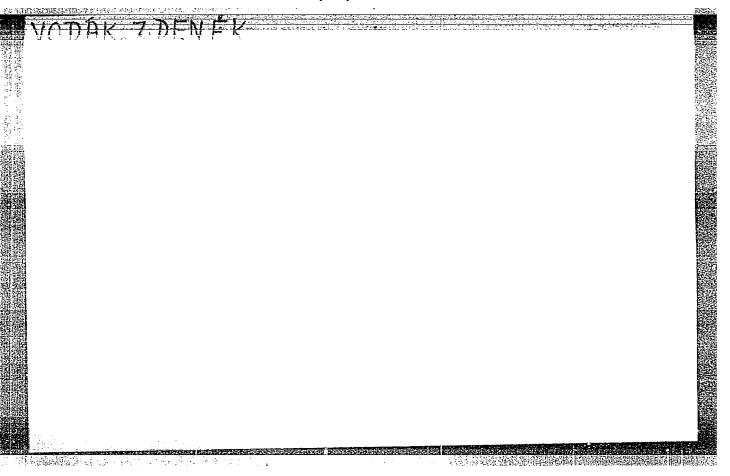
Presses for molding flooring tiles and facing tiles of powdered materials.

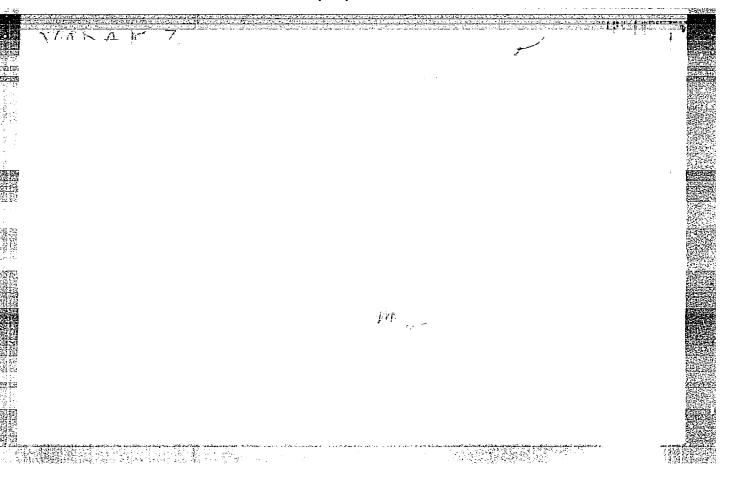
P. 20. (STAVIVO.) (Praha, Czechoslovakia) Vol. 36, no. 1, Jan. 1958

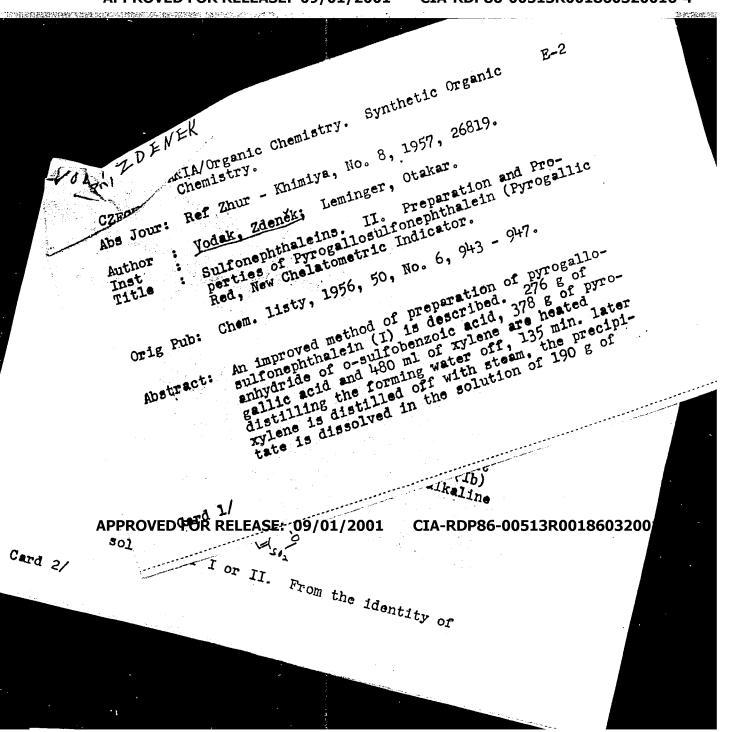
SO: Monthly Index of East European Accession (EEAI) IC Vol. 7, No. 5, 158

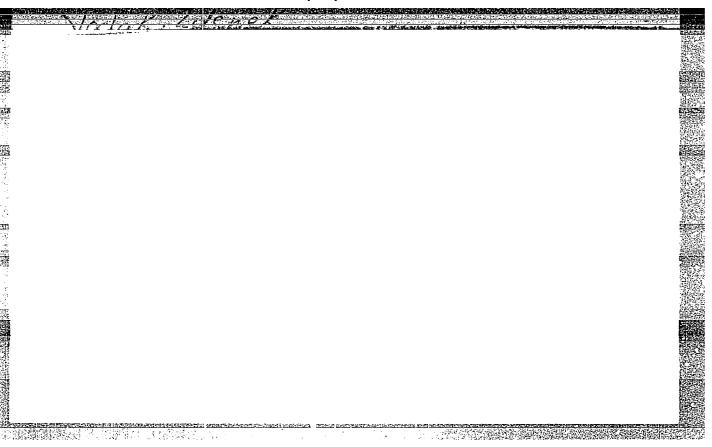












VODAK, Z.; LEMINGER, O.

年**建設議場的**的計畫(日本語)在中央語

"Specific chromatographic test for silver cations using pyrogallolsulfonephthalein and its dibromo derivatives. In German."

p. 1050 (Collection of Czechoslovak Chemical Communications. Sbornik Chekhoslovatskikh Khimicheskikh Rabot.) Vol. 22, no. 3, June 1957. Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001860320016-4"

LEMINGER, Otakar; FARSKY, Miroslav; VODAK, Zdenek

Contribution to the preparation of ~(2,4-dichlorophenoxy) butric acid. Chem prum 14 no.6:302-304 Je 164.

1. Spolek pro chemickou a hutni vyrobu National Enterprise, Usti nad Labem.

VODAK, Zdenek; ADAMIROVA, Ludmila

Nonpressure polymerization of isobutylene catalyzed with acid ion-exchanging substances. Chem prum 14 no.12:660-661 D '64

1. Spolek pro chemickou a hutni vyrobu National Enterprise, Usti nad Labem.

OD AKOV,

Yu. A.

AUTHORS:

Lomakina, G. A., Vodakov, Yu. A., Naumov, G. P., Maslakovets, Yu. P. 57-27-7-26/40

TITLE:

A Valve Photocell of Cadmium Telluride. (A Preliminary (Ventil'nyy fotoelement iz tellurida kadmiya.

Report) (Predvaritel'noye soobscheniye)).

PERIODICAL:

Zhurnal Tekhnicheskoy Fiziki, 1957, Vol. 27, Nr 7,

(USSR) p. 1594

ABSTRACT:

For the production of n-n transitions n-type plates of CdTe with an area of 1 to 2 qcm consisting of several (3 to 5) crystals were used. Their specific conductivity

was

 $\sigma \simeq 40 \text{ Ohm}^{-1} \cdot \text{cm}^{-1}$, thermal-EMK $\alpha \simeq 200 \,\mu\text{V}/$

degree. The width of the forbidden zone was 1,34 eV. The thin p-layer was formed by means of thermal diffusion of elements of the first group of the periodic law. The ohmic contact on the n-layer was obtained by melting of indium and on the p-layer by melting of gold. The p-n transitions obtained in this manner were very "directed" with a distinctly marked saturation in the inverse direction. In sunlight with 30 mW/qcm the photo-EMK of this photoelectric

Card 1/2

A Valve Photocell of Cadmium Telluride (A Preliminary Report)

57-27-7-26/40

cell amounted to more than 500 mV and the short-circuit amperage 2 mA/qcm. The loaded part of the volt-ampere characteristic in this connection approached the rectangular form. The efficiency of such a photoelectric cell has the order of magnitude of 2 %. This value, however, is by far no boundary value for photocells of CdTe. The maximum of the spectral sensitivity of the obtained photocells lay within the boundaries of 0.75 to 0.78 μ and the long-wave boundary of photosensitivity was 0.9 μ . The photoelectric cells of cadmium-telluride possess a high sensitivity as compared to X-rays.

ASSOCIATION: Institute for Semiconductors AS USSR, Leningrad

(Institut poluprovodnikov AN SSSR, Leningrad)

SUBMITTED: January 30, 1957

AVAILABLE: Library of Congress

Card 2/2 1. Photoelectric cells-Development 2. Photoelectric cells-Design

3. Cadium-telluride-Applications

VODAKOV, Yu.A.; LOMAKINA, G.A.; NAUMOV, G.P.; MASLAKOVETS, Yu.P.

Properties of p - n junctions in photocells from cadmium telluride. Fiz. tver. tela 2 no.1:15-22 Jan '60. (MIRA 14:9)

1. Institut poluprovodnikov AN SSSR, Leningrad.
(Cadmium telluride--Electric properties)
(Photoelectric cells)

81251

8/181/60/002/01/01/035 B008/B011

9.4160 AUTHORS: Vodakov, Yu. A., Lomakina, G. A., Naumov, G. P., Maslakovets, Tu. P.

TITLE:

A Photocell Made of Cadmium Telluride With a p-n Junction

PERIODICAL:

Fizika tverdogo tela, 1960, Vol. 2, No. 1, pp. 3 - 7

TEXT: The authors report on the properties of a new cadmium-telluride photocell. Cadmium-telluride crystals with a cubic modification were used for its preparation. The light characteristics of the CdTe photocells are similar to those of Ge and Si photocells, which have a p-n junction. Fig. 1 shows the characteristics of the CdTe cell for an junction of 4, 30, 300 and 3,000 lux. Current-voltage characteristics of the CdTe photocell are shown in Fig. 2 for room temperature, in Fig. 3 for +50°C, and in Fig. 4 for +101°C. According to their character, they are similar to those of silicon photocells. Fig. 5 shows the temperature dependence of the electromotive force, of short-circuit current, and of the maximum capacitance yielded to the outer circuit under continuous exposure. Fig. 6 shows the characteristics of another

Card 1/3

12.1

A Photocell Made of Cadmium Telluride With a p-n Junction

8/181/60/002/01/01/035 B008/B011

photocell at a relatively short exposure. Fig. 7 shows the temperature dependence of the short-circuit current, of the electromotive force and of the maximum capacitance yielded to the outer circuit. Fig. 8 shows, in relative units, the spectral sensitivity of the CdTe photocell referred to an equal amount of quanta and to an equal incident radiation energy. Cadmium-telluride photocells with p-n junction are very sensitive to ultraviolet and X rays. CdTe photocells have at present an efficiency of 4% and can be utilized for solar batteries. The lower efficiency is compensated by their simpler and less expensive preparation. Due to their spectral sensitivity and a high duty factor of the characteristics, they might be used to solve some technical problems. The authors thank T. L. Koval'chik for his discussion of experimental results and G. B. Dubrovskiy for his examination of the spectral sensitivity of the photocells. B. K. Subashev is also mentioned. There are 8 figures and 6 references, 4 of which are Soviet.

Card 2/3

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320016-4

81251

A Photocell Made of Cadmium Telluride With a p-n Junction

S/181/60/002/01/01/035 B008/B011

ASSOCIATION: Institut poluprovodnikov AN SSSR, Leningrad (Institute of Semiconductors, AS USSR, Leningrad)

SUBMITTED: April 9, 1959

Card 3/3

北部市政治政治的中部中国的政策等的规范的企会。

812-3 \$/181/60/002/01/03/035 B008/B011

9.4160 24.7700

AUTHORS:

TITLE:

Vodakov, Yu. A., Lomakina, G. A., Naumov, G. P.,

Maslakovets, Yu. P.

Properties of p-n Junctions in Cadmium Telluride Photocells 5

PERIODICAL: Fizika tverdogo tela, 1960, Vol. 2, No. 1, pp. 15-22

TEXT: The current-voltage characteristics of cadmium telluride photocells were thoroughly studied by means of a circuit (Fig. 1) consisting of the current source, a diode, a current generator (which simulates the photocurrent), a resistor connected in series, and a shunt (Figs. 1 to 10). The technique used for the preparation of cadmium telluride photocells leads to the formation of a p-n junction. The depth of its position can be regulated. In the resulting p-type layer the minority carriers have a very short lifetime, and the electrical conductivity of the layer is poor. Very short lifetime, and the part of a filter with respect to the incident For this reason it plays the part of a filter with respect to the incident radiation, and is the main cause responsible for the high resistances. The authors obtained photocells with p-n junctions, whose current-voltage

Card 1/3

Properties of p-n Junctions in Cadmium Telluride Photocells

S/181/60/002/01/03/035 B008/B011

characteristics at room temperature complied quantitatively with Shockley's theory which considers a recombination in the p-n junction. Near the surface, such characteristics are very difficult to obtain. Their form is in most cases distorted by a "hump". A tunnel effect is assumed to occur in CdTe photocells on narrow points of the p-n junctions. By applying the suitable technique it is possible to obtain a p-n junction with a relatively high efficiency even near the surface, both on a low and a high exposure level. An efficiency of 4% was attained with the best photocells in the sunlight; although, with a band width of 1.4 ev, the conversion coefficient of solar radiation into electric energy should be considerably higher. This low efficiency is for a large part explained by the presence of a semitransparent metal electrode through which only about 50% of the incident light passes. The second factor affecting the efficiency of CdTe photocells, is the short lifetime both in p-type and n-type CdTe. The efficiency could be only increased by prolonging the lifetime of the minority carriers in p-type and n-type cadmium telluride. An increase of up to 7% should be expected in this case. This, however, would entail, due to a complicated technique, a considerable increase in the cost of the photocell. When preparing photocells with an efficiency,

Card 2/3

Properties of p-n Junctions in Cadmium

Telluride Photocells

of about 4% it is, however, possible to restrict oneself to relatively
simple methods of preparation. The authors thank B. Ya. Moyahes for results and resolvet.

ASSOCIATION: Institut poluprovodnikov AN SSSR, Leningrad (Institute of Semiconductors, AS USSR, Leningrad)

SUBMITTED: April 9, 1959

24.7700

S/181/60/002/01/13/035 B008/B011

AUTHORS:

Vodakov, Yu. A., Lomakina, G. A., Naumov, G. P. Maslakovets, Yu. P.

TITLE:

., . ,

Investigation of the Surface Layers on Cadmium Telluride Crystals

PERIODICAL: Fizika tverdogo tela, 1960, Vol. 2, No. 1, pp. 55-61

TEXT: The authors describe experiments made for the investigation of the surface layers of cadmium telluride (Figs. 1-6). The diffusion coefficient is calculated in an appendix. The mechanism of the formation of p-type surface layers was investigated. The respective conductivity in CdTe is due to an admixture of elements of groups I and V or by the presence of Cd vacancies. The most likely is the formation of Cd vacancies or the disappearance of the donor impurity from the surface, which, in the case of p-type CdTe partly compensates the acceptor impurity. Two mechanisms may be assumed which, in the air and at a temperature of 200°C, lead to the formation of Cd vacancies: The one is the diffusion of oxygen into the surface layer and, hence, formation of Card 1/3

Investigation of the Surface Layers on Cadmium Telluride Crystals

S/181/60/002/01/13/035 B008/B011

31259

metalloid excess therein. The second mechanism is the disappearance of cadmium from the surface layer; also this process can be strongly influenced by the presence of oxygen. Compared to the glowing in the air, pre-heating in deoxidized argon or hydrogen has a somewhat inhibiting effect on the diffusion process, but all the same, p-type conductive layers are formed. Also in this case, the influence of oxygen is not excluded. In the authors' opinion, the stimulating main factor is atmospheric oxygen. It was not clarified, however, which type of influence predominates here. On longer standing in the air or on preheating up to a correspondingly high temperature, the properties of CdTe are irreversibly changed only from the surface. Important changes in volume properties start occurring when the processes beginning from the surface penetrate the material to a considerable depth. The same phenomena can be observed in n-type CdTe crystals with low resistivity. Strikingly high is the diffusion coefficient of acceptor impurity (appendix), which raises the surface layer conductivity. Its height can be explained by the great number of vacancies and mechanical tensions in the crystal lattice, occurring in consequence of the treatment and etching of the surface. The authors thank B. Ya. Moyzhes

Card 2/3

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320016-4

Investigation of the Surface Layers on Cadmium Telluride Crystals

S/181/60/002/01/13/035 B008/B011

31219

and T. L. Koval'chik for assistance given. There are 6 figures and

ASSOCIATION: Institut poluprovodnikov AN SSSE, Leningrad (Institute of Semiconductors, AS USSR, Leningrad)

SUBMITTED:

April 9, 1959

Card 3/3

S/181/62/004/003/043/045 B101/B102

AUTHORS:

Lomakina, G. A., and Vodakov, Yu. A.

TITLE:

Phonon drag effect in $\alpha\text{-SiC}$ crystals

PERIODICAL: Fizika tverdogo tela, v. 4, no. 3, 1962, 820 - 822

TEXT: Because of the high thermal conductivity of SiC a special method was developed of measuring the thermo-emf in n-type and p-type α -SiC crystals. In rectangular, 0.5 mm thick specimens of monocrystalline SiC (resistivity up to 10⁴ ohm·cm) two pits with a diameter less than 0.5 mm were produced by means of ultrasound, the distance of the pits from each other being greater than their diameter. Electrical contacts were fit into the bottom of the pits and chromel-alumel thermocouples were pressed in. The measured temperature coefficient $\alpha_{\rm e}$ of thermo-emf for n-type and p-type specimens was not consistent with the equation of Pisarenko: $\alpha_{\rm e} = (k/e) \left\{ A + \ln \left[2 \left(2\pi m^* k/h^2 \right)^{3/2} \right] - \ln n + (3/2) \ln T \right\} \right\}$ where $m_n^* = 0.6 m_0$; $m_p^* = 1 m_0$ or $2m_0$, A = 2. The deviations are explained by phonon drag Card 1/3

Phonon drag effect...

S/181/62/004/003/043/045 B101/B102

which may arise due to the high thermal conductivity of SiC. The phonon drag effect α_{ph} calculated according to C. Herring (see below) for specimens with carrier concentrations of 5.6.10¹⁶ cm⁻³ and 2.7.10¹⁷ cm⁻³ gave a linear dependence $\alpha_{ph} = BT^{-2.3}$. In n-type SiC with a carrier concentration of $3.6\cdot10^{18}$ cm⁻³ a deviation from the straight line was observed which is caused either by degeneracy or by saturation. For p-type SiC, at temperatures higher than room temperature, α_{ph} was linear just as in n-type SiC, but owing to the low hole mobility its value was higher. The considerable decrease of $\alpha_{\mbox{ph}}$ at lower temperatures cannot be explained by the vanishing of phonon drag since at the same time the thermo-emf becomes smaller than $\alpha_{\rm e}$. It is assumed that the thermo-emf in p-type SiC is reduced by an additional electrical conductivity caused by an impurity band. There are 2 figures and 3 references: 1 Soviet-bloc. and 2 non-Soviet-bloc. The two references to English-language publications read as follows: I. A. Lely a. F. A. Kröger, Semiconductors and phosphors, New York, 525, 1958; C. Herring, Semiconductors and Card 2/3

Phonon drag effect ...

S/181/62/004/003/043/045 B101/B102

phosphors, New York, 184, 1;58.

ASSOCIATION: Institut poluprovodnikov AN SSSR, Leningrad (Institute of Semiconductors AS USSR, Leningrad)

SUBMITTED:

December 25, 1991

Card 3/3

L 14979-63 EWT(1)/EWP(q)/EWT(m)/BDS AFF*C/ASD/SSD JD ACCESSION NR: AP3005330 S/0181/63/005/008/2228/2229

AUTHOR: Blank, Yu. S.; Vedakov, Yu. A.; Mostovskiy, A. A.

TITLE: Some results of investigations of electrolyminescence in silicon carbide p-n junctions

SOURCE: Fizika tverdogo tela, v. 5, no. 8, 1965, 2228-2229

TOPIC TAGS: silicon cerbide electroluminescence, carrier-injection electroluminescence, injection luminescence, silicon carbide diode, light-generating diode

ABSTRACT: The production of light emission in silicon carbide p-n junctions by the application of continuous and pulsed electric fields has been investigated with the aim of appraising the practical potentialities of the phenomenon. The measurements showed that the intensity of luminescence at continuous excitation, varies linearly with the current density and that only a few volts produce a luminescence on the order of 100 nit. At an excitation with pulses of 5-20 μsec at 200 cps the afterglow inertia is about 10 μsec, and the intensity decreases 5%; pulses of about 1.2 μsec were required for saturation intensities,

Card 1/2

L 14979-63

ACCESSION NR: AP3005330

and a brightness of 1 stilb was momentarily achieved with 100-usec pulses. Depending on the quality of the samples, the light emitted was green, yellow, or red. Orig. art. has: 3 figures.

ASSOCIATION: Institut poluprovodnikov AN SSSR, Leningred (Institute of Semi-conductors, AN SSSR)

SUBMITTED: 20Mar63

DATE ACQ: 06Sep63

ENCL: 00

SUB CODE: PH

NO REF SOV: COO

OTHER: 007

Card 2/2

AUTHORS:	Vodakov, Yu. A.; Mokhov, Ye. N.; Reyfman, I	и. в. 84
ORG: In	nstitute of Semiconductors, AN SSSR, Leningrad (1 vodnikov AN SSSR)	
TITLE:	Diffusion of boron and aluminum in n-Sic A	
SOURCE:	Fizika tverdogo tela, v. 8, no. 4, 1966, 1298-	1299
TOPIC TA junction	GS: silicon carbide, physical diffusion, boron , temperature dependence, activation energy	, aluminum, pn
diffusio closed s 22500	In view of the lack of data on the diffusion in n-SiC, in spite of the fact that it is extended in p-n junctions, the authors measured diffusion ystem based on vacuum-dense graphite from the general The diffusion time reached 30 hours. n-type	nsively used for produced in a as phase at 1800
with nit: coeffici turn was	rogen concentration 1 x 10^{19} 2 x 10^{17} at/cm ² . ent was calculated from the depth of the p-n jume as under the measured by taking an oblique out water a the	The diffusion nction, which in
	decoration. Plots of the temperature dependent fficients and empirical formulas corresponding	aa af bb. 2100.
Card	1/2	

SHIMANOV, K.I., inzh.; VODAKHOV, L.A., inzh.

Prevent exogenous fires in mines. Bezop. truda v prom. 5 no. 5:13-15 My '61. (MIRA 14:5)

1. Upravleniye Sverdlovskogo okruga Gosgortekhnadzora RSFSR. (Mine fires)

ZAYTSEV, A.P., red.; BORZOV, K.V., red.; BOGUSLAVSKIY, Yu.K., red.;

BELCUSOV, V.G., red.; VODAKHOV, L.A., red.; IZRAITEL', S.A., red.;

KOL', A.N., red.; LISYUK, S.S., red.; MOISEYEV, S.L., red.;

MEL'NIKOV, N.V., red.; MOROZOV, V.P., red.; MUDROV, P.A., red.;

POLYAKOVA, Z.K., red.; PODERNI, Yu.S., red.; POLESIN, Ya.L., red.;

POKROVSKIY, L.A., red.; SLASTUNOV, V.G., red.; SKURAT, V.K., red.;

STHUNIN, M.A., red.; SOKOLOVSKIY, M.M., red.; FEOKTISTOV, A.T.,

red.; CHESNOKOV, M.M., red.; SHUKHOV, A.N., red.; YAMSHCHIKOV,

S.M., red.; BYKHOVSKAYA, S.N., red.izd-va; BERESLAVSKAYA, L.Sh.,

tekhn.red.

[Unified safety regulations in open-cut mining] Edinye pravila bezopasnosti pri razrabotke mestorozhdenii poleznykh iskopaemykh otkrytym sposobom. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1960. 61 p. (MIRA 13:7)

1. Russia (1917- R.S.F.S.R.) Gosudarstvennyi komitet po nadzoru za bezopasnym vedeniyem rabot v promyshlennosti i gornomu nadzoru. (Strip mining--Safety measures)

THE RESIDENCE OF THE PROPERTY OF THE PROPERTY

GORDIN, Iosif Mikhaylovich; VODAKOV, A.A., inshener, nauchnyy redaktor; KAPIAN, M.Ya., redaktor; FUL KIRK, Te.A., tekhnicheskiy redaktor.

[Extensible panel scaffolding for bricklaying] Panel nye rasdvishnye podmosti dlia kirpichnoi kladki. Leningrad, Gos. izd-vo lit-ry
po stroitel stvu i arkhitekture, 1954. 46 p. (MLRA 8:1)
(Bricklaying) (Scaffolding)

ZHELTIKOV, V.F.; GORDIN, I.M.; SPIVAKOV, M.S.; ALHENSIEV, N.P.; VODAKOV, A.A.

Adjustable scaffolding for bricklaying. Rats. 1 izobr. predl. v stroi.
no.91:7-9 '54. (MIRA 8:8)

1. Trest Lehmekhmontashstroy ispolkoma Lengorsoveta.
(Bricklaying) (Scaffolding)

VODAKOVA, E.I.

Effect of the functional state of the central nervous system on the development of experimental "thyrogenous" hypertension in animals of different ages. Sbor. nauch. trud. Ukr. nauch.-issl. inst. eksper. endok. 15:191-199 '59. (MIRA 14:11) (HYPERTENSION) (AGE) (CEREBRAL CORTEX)

```
VODAKOVA. E.I. (Khar'kov, Sumskaya ul. d.47, kv.20); SEHDYUKOVA, O.A.,

(Khar'kov, ul. Oktyabr'skoy Revolyutsii, d.24, kv. 25)

Growth and development of tumors implanted in rats of various ages following induction of experimental neuroses. Vop.onk. 1 no.3:

121-125 '55. (MIRA 10:1)

1. Iz otdela vozrastnoy endokrinologii (zaveduyushchiy - Z.M.Dinershteyn) Ukrainskogo instituta eksperimental'noy endokrinologii (direktor - kandidat meditsinskikh nauk S.V.Maksimov)

(NEOPLASMS, experimental,

eff. of meuroses on develop. in rats of various ages)

(NEUROSES, experimental,

eff. of cancer growth in mats of various ages)

(AGING, physiology,

age factor in cancer responses to exper. neuroses in rats)
```

BUJAS, Z.; VIDACEK, S.; VODANOVIC, Mirjana

Effect of some pharmacological agents on the efficiency of repeated physical performances. Arh hig rada 11 no.4:261-287 160.

1. Institut za medicinska istrazivanja i medicinu rada, Zagreb.

(EXERTION) (FATIGUE)

YUGOSLAVIA

BUJAS, Z., PAVLINA, Z., SREMEC, B., YIDAGEK, S., and VODANOVIC, M., Institute of Medical Research and Occupational Medicine, Zagreb

"Subjective Rating of Fatigue"

Zagreb, Arhiv za Higijenu Rada i Toksikologiju, Vol 17, No 3, 1966, pp 275-290

Abstract: After being subjected to a static strain as a result of holding a 7.17 kg weight for 30, 60, 90, 120, 150, and 180 sec, persons on whom the tests were performed rated their feeling of fatigue on an arbitrary scale. At the same time, the effort of four active muscle groups was determined electromyographically and then summed up. The subjective degree of fatigue as a function of the duration φ of the static effort could be expressed by the equation $\Psi = 0.0048 \ (\varphi = 30^{\circ})^{1}$. Frepresenting the average result, while the effort measured on the electromyograph corresponded on the average to EMO = $0.0051 \ (\varphi = 30^{\circ})^{1}$. Individual variations were expressed in deviations to the same extent from the general curves for both Ψ and EMF. Tables and graphs, 13 references (all Western). English summary. Hanuscript received 9 Mar 66.

1/1

WODAR, A., inch.

Boata made of iron. Tekh. mol. 26 no. 6:27 '59. (HIRA 11:7)

(Boathuilding)

AUTHOR:

Vodar, A., Civil Engineer

29-58-6-13/19

TITLE:

Boat Made of Iron (Lodka iz zheleza)

PERIODICAL:

Tekhnika Molodezhi, 1958, Vol 26, Nr 6, pp 27-27 (USSR)

ABSTRACT:

Numerous readers built boats according to the description published in "Tekhnika molodezhi" 1956, number 7. Many readers write, however, to the editor that in several regions it is difficult to get veneer plates for this purpose. The editor publishes today an article by civil engineer A. Vodar, in order to comply with the readers' wishes. The author describes in detail the construction of a boat of iron with three seats and adds plan drawings as well. The author himself built such a boat and sailed already hundreds of kilometers in it. This boat has a weight of 30 kg and costs approximately 150 Roubles. It is solid, watertight and stable. A tire is fixed under the seat in order to prevent the boat from sinking in the case of overturning. A single tire is sufficient for keeping a boat filled with water on the surface. An outboard motor of 1,5 - 5 HP is mounted at the stern. The boat can, however,

Card 1/2

' Boat Made of Iron

29-58-6-13/19

be used as rowing boat as well. There are 2 figures.

1. Boats--Materials 2. Boats--Construction 3. Iron--Applications

Card 2/2

VODADEK, L.

Experiences and comparisons from a trip to the USTR. p. 489. STROJIRENSKA VYROBA. (Ministerstvo strojirenstvi) Praha. Vol. 3, no. 12, Dec. 1955.

SOURCE: East European Accessions List, Vol. 5, no. 9, September 1956

VODAR, A. A. WBanfaatina a contest desire for an auto-

Vodar, A. A. - "Perfecting a contact device for an automatic registering micrometer", Soobshch. Gos. astron. in-ta im. Shternberga, No. 31, 1949, p. 14-16.

SO: U-4110, 17 July 53, (Letopis 'Zhurnal 'nykh Statey, No. 19 1949).

VODAR, A. A.

Vodar, A. A. "The printing chronograph", Scobshch. Gos. astron. in-ta in. Shternberga, No. 31, 1949, p. 8-13.

SO: U-4110, 17 July 53, (Letopis 'Zhurnal 'nykh Statey, No. 19, 1949).

VCDAR, A. A.									
"Electrical sychronizing systems", Astron. Zhur., 16, No. 2, 1939. (submitted 15 Nov 1938)									
Report U-1518, 23 Octobe									
					·				
					i				
					1				
			,						
		TO THE RESERVE THE PROPERTY OF THE PERSON OF							

Method of producing parts with slotted hubs, p. 186, STROJIRENSKA VYROBA (Ministerstvo strojirenstvi) Praha, Vol. 3, No. 5, May 1955

SOURCE: East European Accessions List (EEAL) Library of Congress, Vol. 4, No. 12, December 1956

VODAREK, L.; REHUHEK, J.

Adjustable heads; a universal tool for horizontal drilling machines.

P. 13. (STROJIRENSKA VYROBA) (Praha, Czechoslovakia) Vol. 6, no. 1, Jan. 1958

SO: Monthly Index of East European Accession (EEAI) LC Vol. 7, No. 5, 1958

VODAREK, Ludvik; REHUREK, Jaroslav.

Adjustable heads; universal tool holders for horizontal boring and milling machines, turret lathes and multispindle automatic machines. Stroj vyr 9 no.12:600-602 '61.

1. Zavody presneho strojirenstvi Gottwaldov, n.p., Gottwaldov.

H-27

VODARICI, C.

RUMANIA/Chemical Technology - Chemical Products and Their

Application, Part 3. - Fermentation Industry.

Abs Jour

: Ref Zhur - Khimiya, No 14, 1958, 48418

Author

: C. Vodarici

Inst Title

: Record Sugar Content in Wine from Murfatlar.

Orig Pub

: Gradina, via si livada, 1957, 6, No 8, 26-29

Abstract

: The climatic conditions of the Murfatlar region are described. In 1956 they created optimum conditions for the development and ripening of grapes and for the production of high quality sorts of wine thereof. The juice of the grape sorts Pinnud Gris and Chardonne contained the greatest amount of sugar in the last 25 years, i.e., 400 g and 384 g per liter respectively, the mean crop having

been 3803 kg per ha.

Card 1/1

VODARSKIY, Ya. Ye. (Moskva)

在美術/國際聯繫/2014年1月2日中

Medics in Russia in the 18th century. Fel'd. i akush. 27 no.6: 56-58 Je '62. (MIRA 15:7)

(MEDICAL PERSONNEL)

VODARSKI, E. A.

River regulation 2. izd Moskva, Vodnyi transport, 1939. 267 p. maps.
(49-57194)

Te530.V6 1939

1. Rivers - Regulation.

VODARSKI, /E. A.

Gavan' verkhnego b'efa Zaporozhskogo porta. Harbor in the head waters of the port of Zaporozhye. (Vodnyi transport, 1934, no. 7, p. 9-10; illus.) DLC: HE561.RS

SO: Soviet Transportation and Communication, A Bibliography, Library of Congress, Reference Department, Washington, 1952, Unclassified.

VODARSKII,YE.A.

Rechnye puti. [Waterways]. (Vodnyi transport, 1934, no. 11, p. 4-5).

DLC: HE561.R8

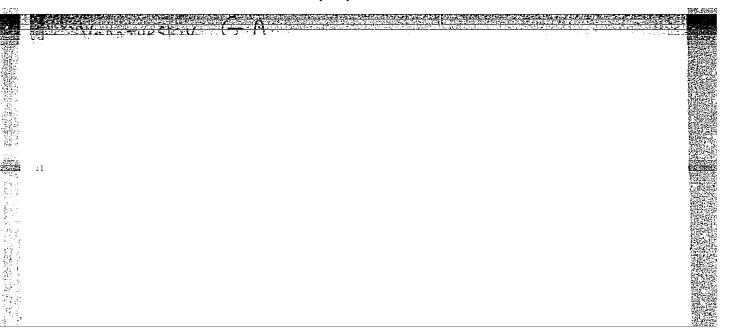
SO: <u>Soviet Transportation</u> <u>and Communications</u>, <u>A Bibliography</u>, Library of Congress, Reference Department, Washington, 1952 Unclassified.

TRISHIH, P.I.; VODATURSKIY, G.A.

Method for fast determination of the ash content of flour. Izv. Vys. ucheb. zav.; pishoh. tekh. no.1:113-116 58. (MIRA 11:8)

1. Odesskiy tekhnologicheskiy institut imeni I.V. Stalina, Kafedra analiticheskoy khimii.

(Flour-Analysis)



MIHALCA, E., assist. prof.; MARGINEANU, O.; GROSU, M.; VODCAILO, L.; STEIN, S.; ROSENFELD, C.

Considerations in connexion with dyspepsia due to colon bacilli.
Rumanian M Rev. no.3:37-41 '61.
(DYSPEPSIA etiology)
(ESCHERICHIA COLI INFECTIONS case reports)

RUMANIA/General Biology - General Hydrobiology.

В.

Abs Jour

: Ref Zhur - Biol., No 21, 1958, 94717

Author

: Vodcanitkii, V.A.

Inst Title

: New Data on Biological Productivity of the Black Sea.

Orig Pub : Bul. Inst. cercetari piscicole, 1957, 16, No 4, 5-11

Abstract : No abstract.

Card 1/1

VODEHNAL,	Josef	•									
									- -	r	
	1/2	13. Toport on the 2k Everaber 1941 Season of the Control Compittee of the Carcheslovak Chemical Society within the CSNV," unaignel; pp 422-425.	Paculties, " L. 1974.2 [effiliation not given]; pp 417-420. 12. "The 1964 Notel Price for Chemistry," !. EISTER [affiliation not given]; p 421.	10. "About Publishing, Part II, Ports of Publications," J. SKCIA and M. KRUNG (affiliations not given); pp %15-407. 11. "Comments on the Teaching of Biochemistry at the Fatural Delences	photometer, desoft towards for former, Cam institute of free free for the first feethald charles, frames or 3,2233. 8. Erich; or 3,2265. 9. Book reviews or 405-143.	5. The surement of the Effectiony of Blossica Francis Agents, "Fact Emphis est Jan Kochen, (Say Lajtima all december 1977, and literal limit for the Fact Late (Ulter graduals a percentage survis), Francis 17 122-39.	J. Application of Organic Response in Accordance of Intelligence of Organic August and Response in Accordance of the 1775. 4. Teconomication of the Persecutivity of Pails for Sulphur Dioxide, "Josef BLYGGE and Latislay HETEL of the Fachaging Invitiue (Obsidery with), Prayon pp 375-32.	2. "Induced Reactions in Analytical Chemistry," by 2. K.; pp 359-372.	Projut, Chemicha Listy, Vol. 56, No. 4, April 1952 1. The Chemistry of Trust-Curium Ements, "Maryslar, Englands of the Joint Inches Research Englishme for Egual-Anapus," writion not Trivery in December 2003; and Maryslaw Maries, forcestly of the A. Zapotock Maries, Charles A. Sapotock Maries, the Calvellands Administration of the Committee Assembly (Section 2014) in Section 2014; A. Sapotock Maries and Care Project Research Lantinum (Ustav Jodonado vythen) in Section 2014; P. Jároját.	(25)	
										273	



CZECHOSLOVAKIA

STEPAN, V; VODEHNAL, J; KOSSLER, I; GAYLORD, N.G

1. Institute of Physical Chemistry, Czechoslovak Academy of Sciences, Prague - (for Stepan, Vodehnal and Kossler). 2: Gaylord Associates Ins., Newark, U.S.A - (for Gaylord)

Prague, Collection of Czechoslovak Chemical Communications, No 7, July 1966, pp 2878-2888

"Cyclo- and cyclized diene polymers. Part 6: Infra-red spectra of cyclopolycyclopentadiene and polycyclopentadienes."

BIELICKY, Tibor; VODEK, Vladimir

Morphological and biochemical changes in the liver in chronic erythematosus. Cesk. derm. 37 no.3:155-159 Je '62.

1916年18月4日中国共和国国际的国际政策的基础的基础的基础的

1. II. dermatovenerologicka klinika fakulty vseobecneho lekarstvi Karlovy university v Praze, prednosta prof. dr. J. Obrtel, DrSc. II. interni klinika fakulty vseobecneho lekarstvi Karlovy university v Praze, prednosta prof. dr. V. Hoenig, DrSc. (LUPUS ERYTHEMATOSUS pathol) (LIVER pathol)

```
5/186/60/002/002/012/022
                                        E071/E433
             Pushlenkov, M.F., Nikitina, G.P. and Voden, V.G.
AUTHORS:
             A study of the formation of uranyl nitrate complexes
TITLE: '
             with phosphorusorganic compounds. II
PERIODICAL: Radiokhimiya, 1960, Vol.2, No.2, pp.215-221
         In Part I (Ref.1: V.G. Voden, G.P. Nikitina, M.F. Pushlenkov,
Radiokhimiya, 1, 2, 121 (1959)) it was established that uranyl
nitrate is transferred from the aqueous phase ([HN03] = 0.2 to 1.1 M)
into the organic phase in the form of a disolvate UO2(NO3)2.2T
(where T = DBEBPh di-n.butyl ester of n.butylphosphinic acid or
TBPhO - tri-n.butylphosphinoxide). The stability constants (K_K) for the compounds UO_2(NO_3)_2 \cdot 2TBPh and UO_2(NO_3)_2 \cdot 2DBEBPh were
determined by the distribution method (12 and 9.5 x 102 respectively).
The calculated stability constant for the latter compound was
6.3 \times 10^2. The difference between the determined and calculated
values of the constants was assumed as being due to the presence of
oxide impurities which changes the slope of the curve
ln S = f[NO3] w from 0.6 to 1 and correspondingly increases the
value of the constant
Card 1/4
```

5/186/60/002/002/012/022

A study of the formation of uranyl .. E071/E433

is the concentration of 100 ions in the equilibrium on; $[T]_0^2$ - concentration of T in the organic NO3 W where aqueous solution; solution; 'Kp - coefficient of distribution of UO2(NO3)2 between the aqueous and organic phases. The stability constant for UO2(NO3)22TBPhO was obtained only by calculation, since the dependence of ln S on [NO3] was represented by a curve indicating the presence of some factors influencing the distribution which were not taken into consideration. For the system: aqueous solution of uranyl nitrate - solution of n.butyl ester of di-n.butylphosphinic acid in carbon tetrachloride, neither the composition of the complex extracted nor its stability constant were determined. scope of the present work was to determine the composition and the stability of the complex extracted in the latter system, the determination of the stability constant of UO2(NO3)2.2DBEBPh when the DBEBPh is known to be free from oxide admixtures and to explain the curvature of the relationship $S = f[NO_3]_w$ for the system: aqueous solution of $UO_2(NO_3)_2$ - TBPhO in CCI_4 . For this purpose it was necessary to obtain three relationships: 1) $lg K_p = f(lg[BEDBPh]_o)$, where K_p - coefficient of distribution of UO2(NO3)2 between the aqueous and organic phases; Card 2/4/